

PATENT



IN THE UNITED STATES PATENT & TRADEMARK OFFICE

SAIC0016-US

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Technology Center 2100

In re the Application of: Roger B. BRADFORD

Serial No.: 09/935,724

Art Unit: To Be Assigned

Filed: August 24, 2001

Examiner: To Be Assigned

For: WORD SENSE DISAMBIGUATION

Assistant Commissioner for Patents  
Washington, D.C. 20231

PRELIMINARY AMENDMENT

Dear Sir:

Before the examination of the above-identified application, please amend as follows.

IN THE CLAIMS

Please amend Claim 15 as follows:

15. In a collection of documents, each document containing a plurality of terms, a computer program product for discerning the presence of at least one sense of a subject term when executed on a computer system, the computer program product comprising:

a computer-readable medium;

a matrix-forming module stored on the medium ~~that forms~~, the matrix-forming module operative to form an  $m$  by  $n$  matrix, where each matrix element  $(i, j)$  corresponds to the number of occurrences of term  $i$  in document  $j$ ;

a singular value decomposition and dimensionality reduction module stored on the medium and ~~couple~~ coupled to the matrix forming module ~~that forms~~, the singular value decomposition and dimensionality reduction module operative to form a latent semantic indexed vector space from the matrix;